

DISCOVER-AQ

HSRL Data Summary

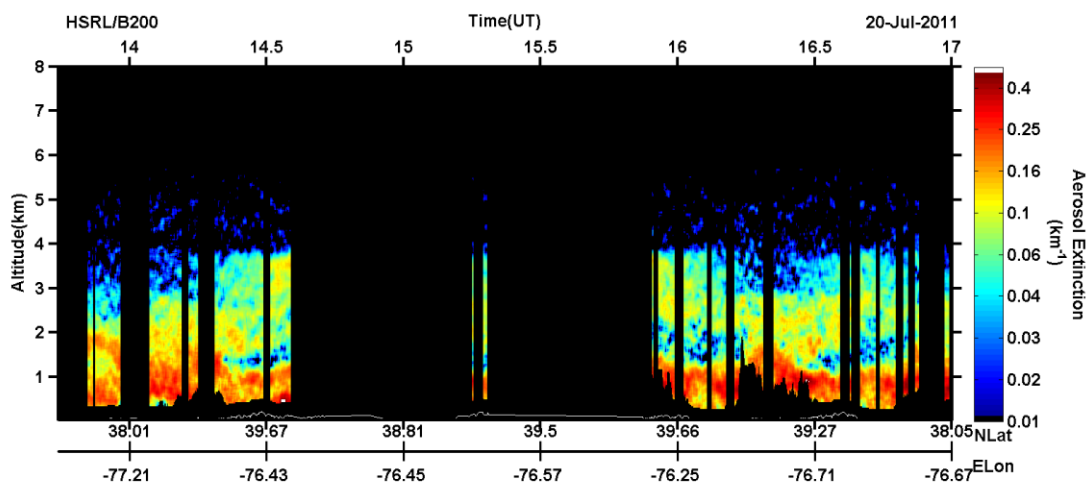
FLIGHT: Morning science flight (1 of 2)

DATE: July 20, 2011

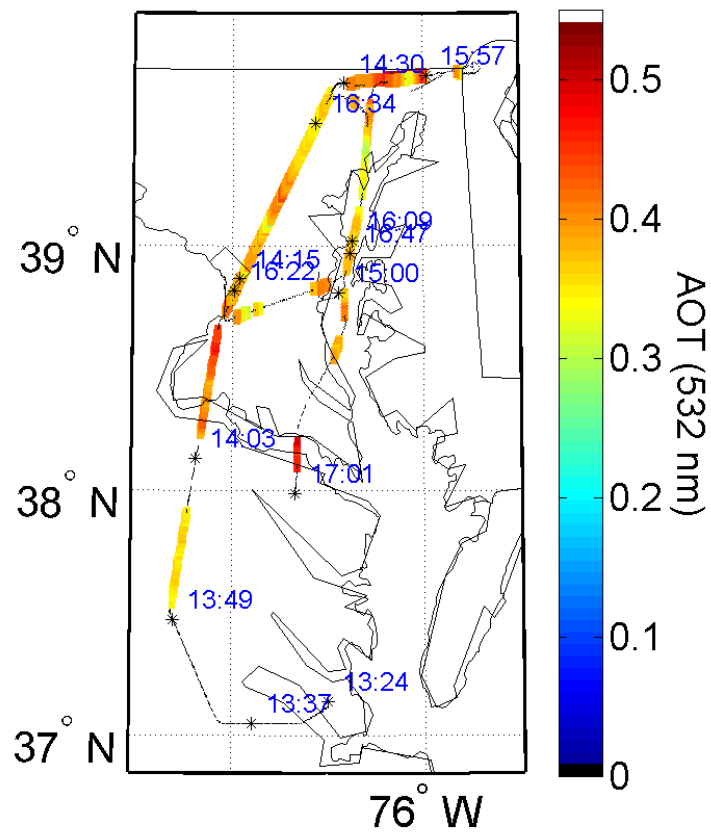
DURATION: 3.9 hours

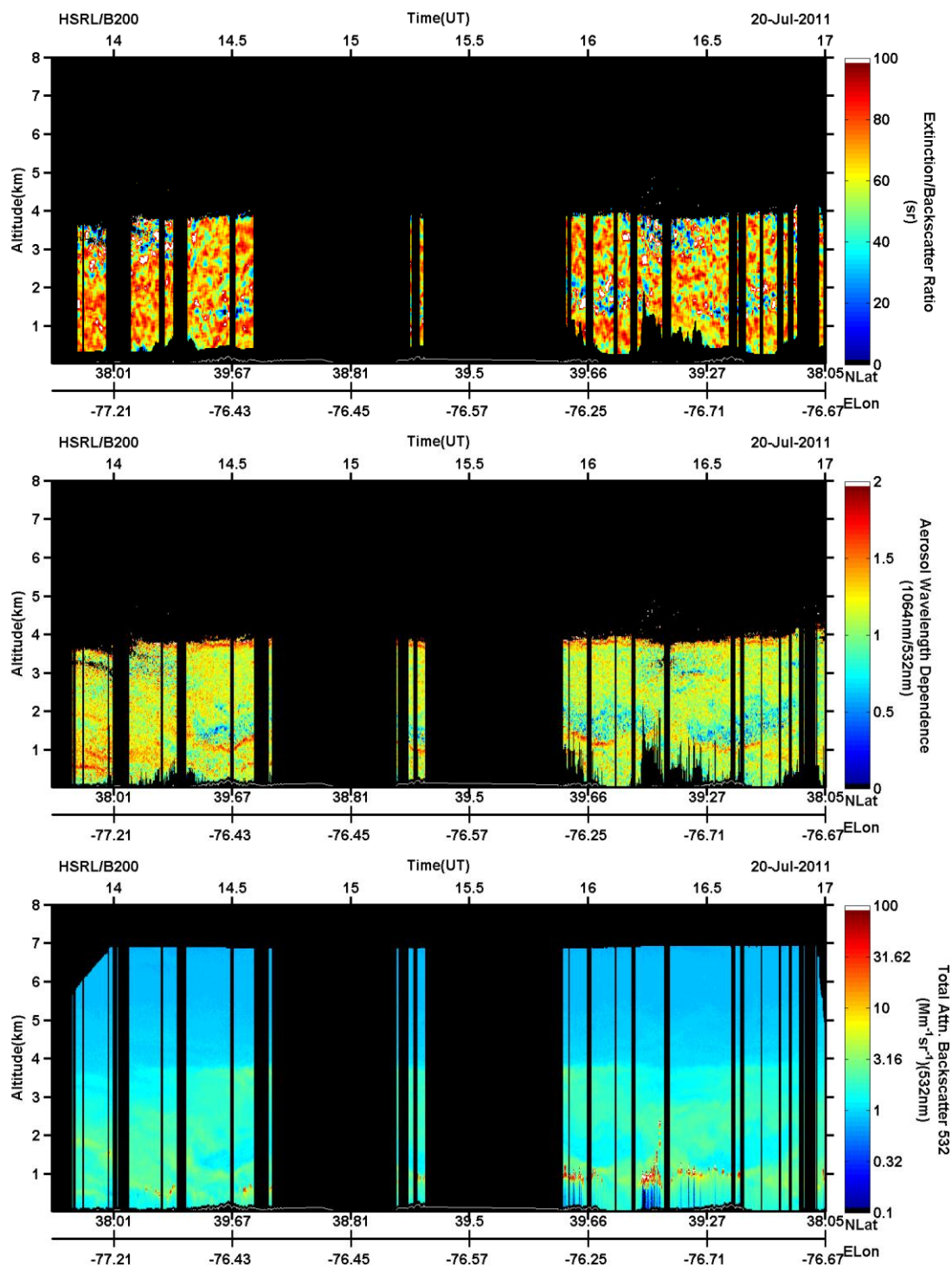
SUMMARY: Takeoff was at 9:30 AM local time from Newport News, VA. Aerosol levels were enhanced as expected due to the hot, humid, hazy conditions. A few scattered cumulus clouds were in the region of study. HSRL experienced a laser spectral purity issue that prevented data for roughly 1 hour during a part of the flight. Otherwise, HSRL operation was normal.

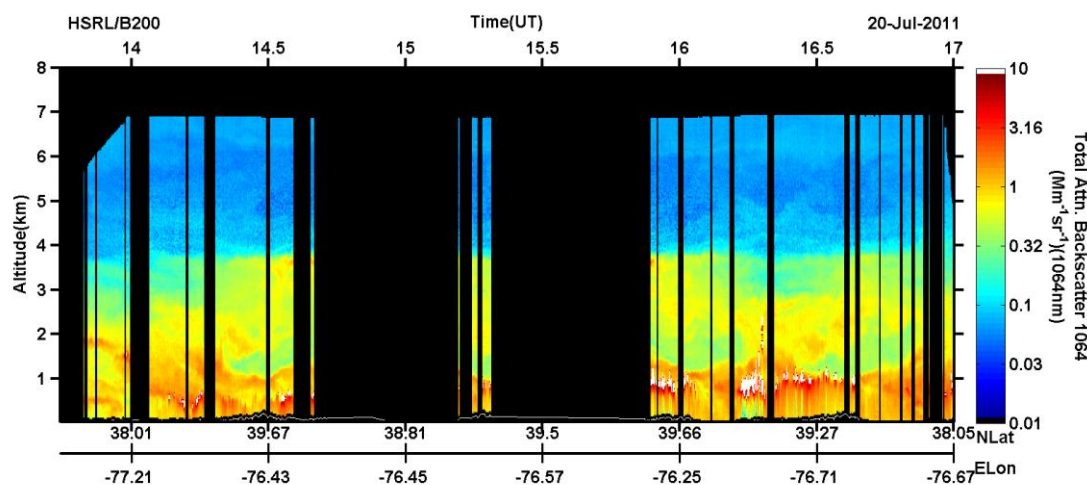
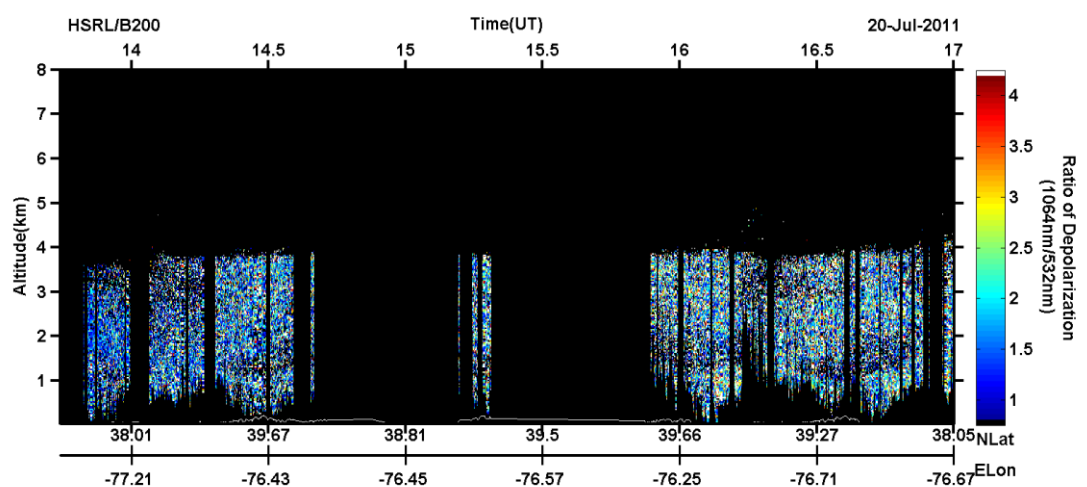
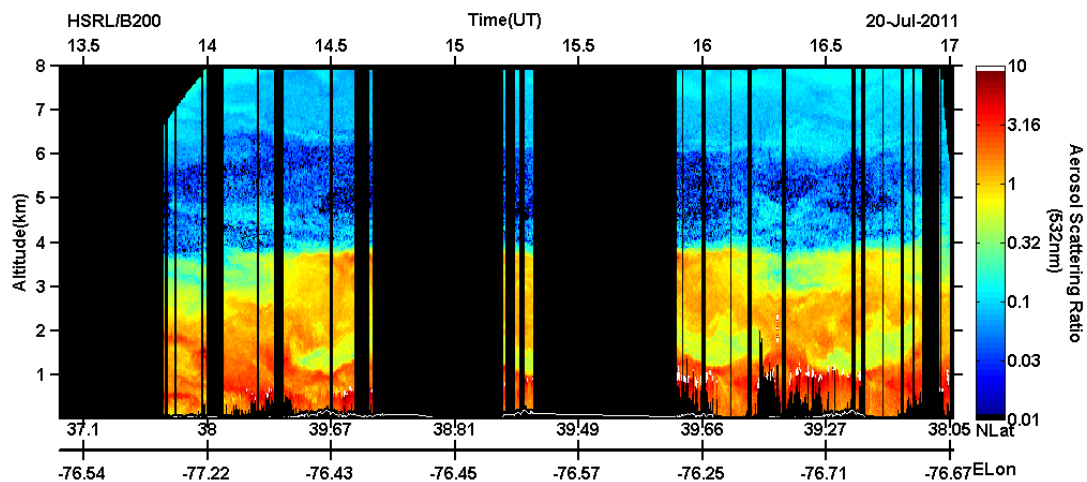
SUMMARY PLOTS:

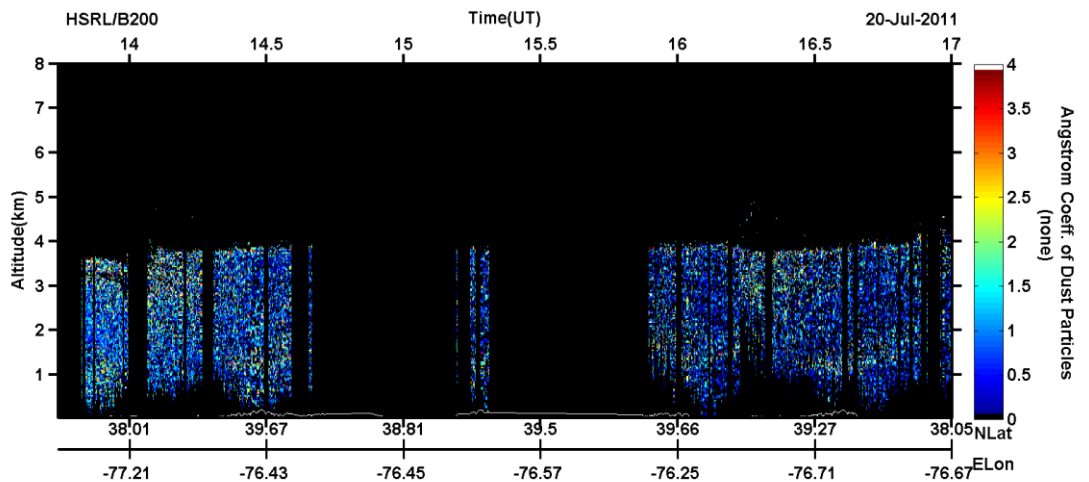
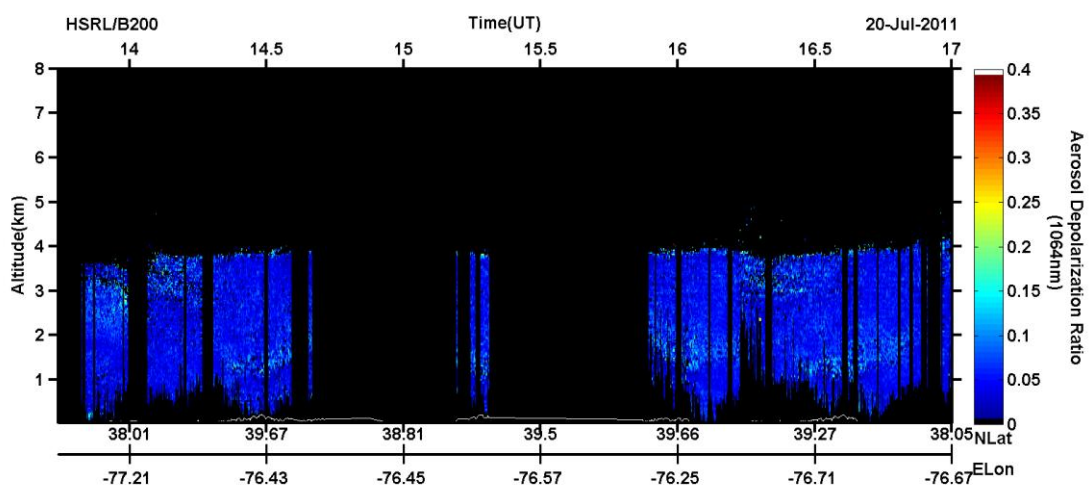
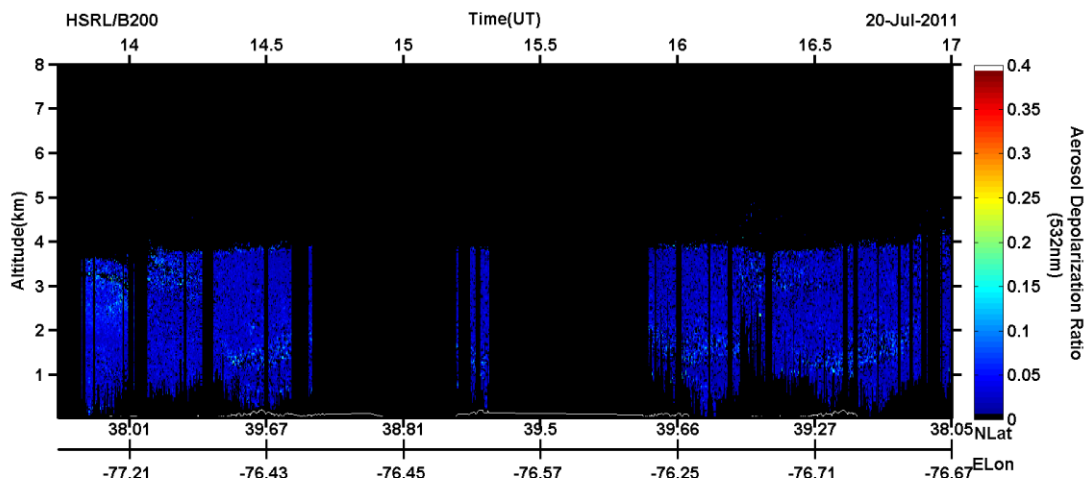


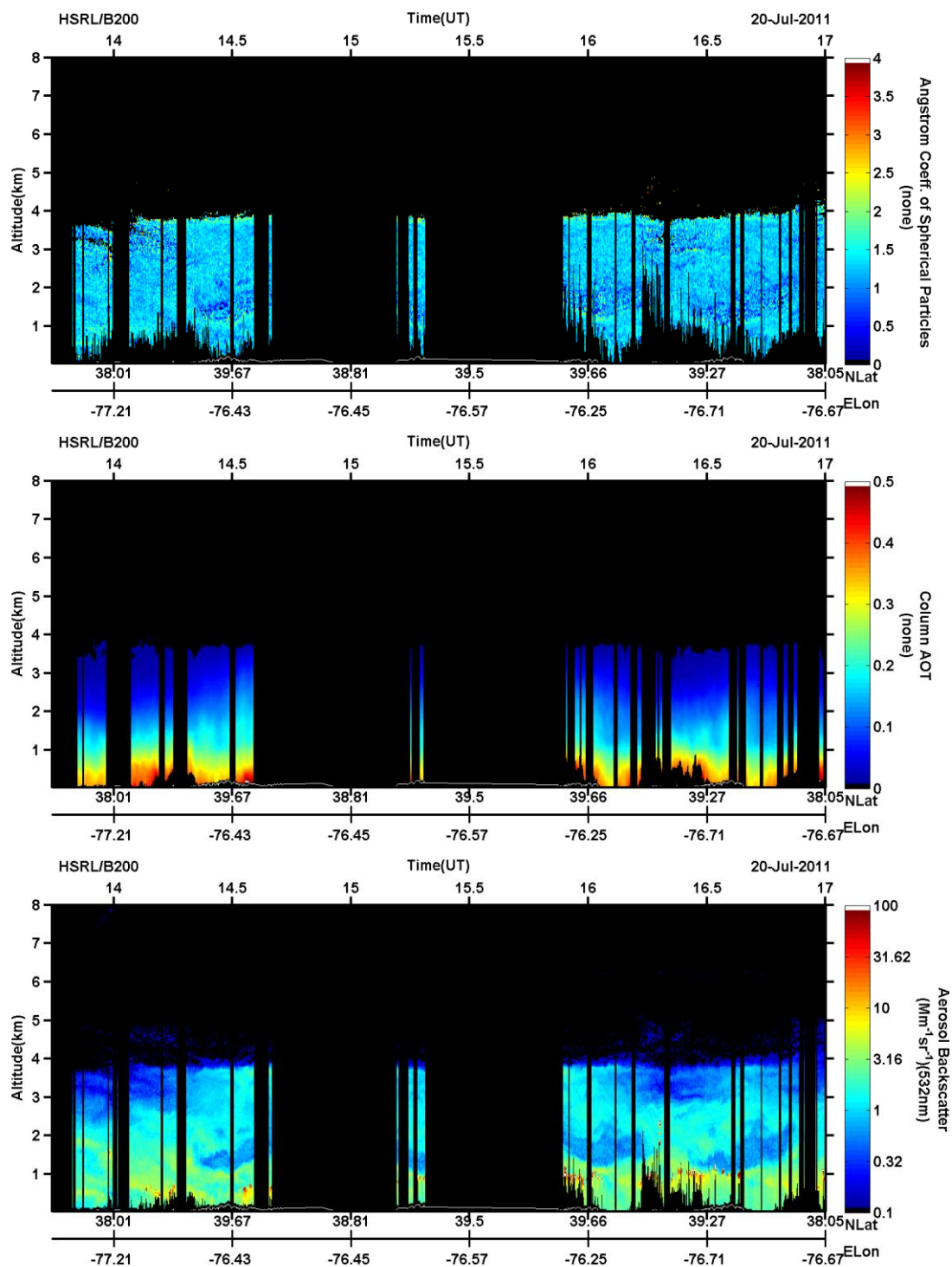
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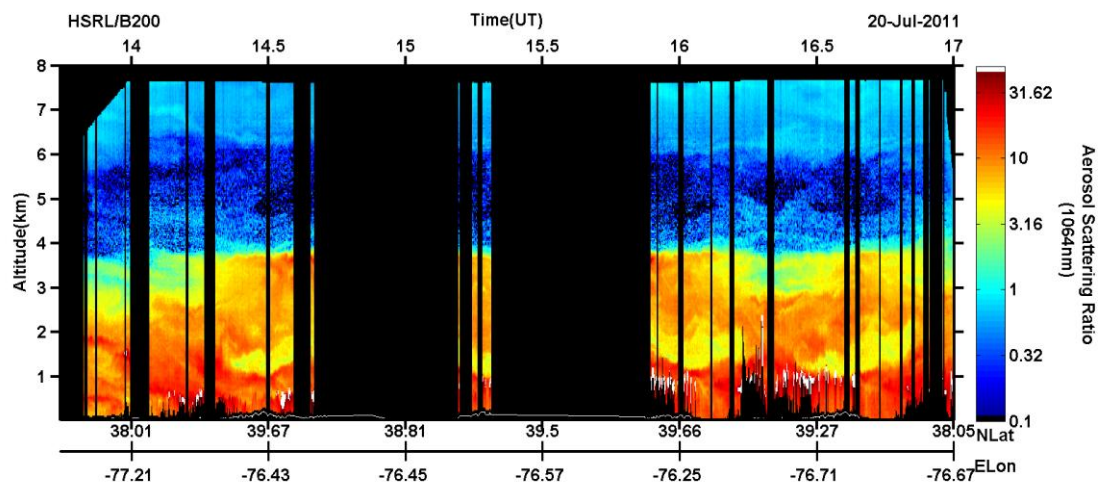
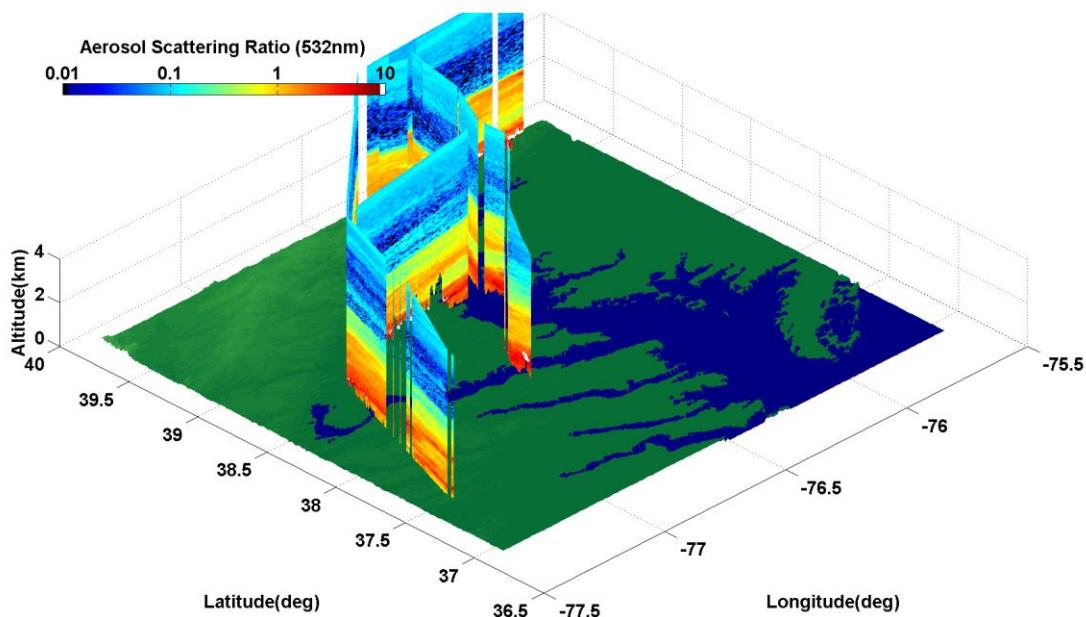
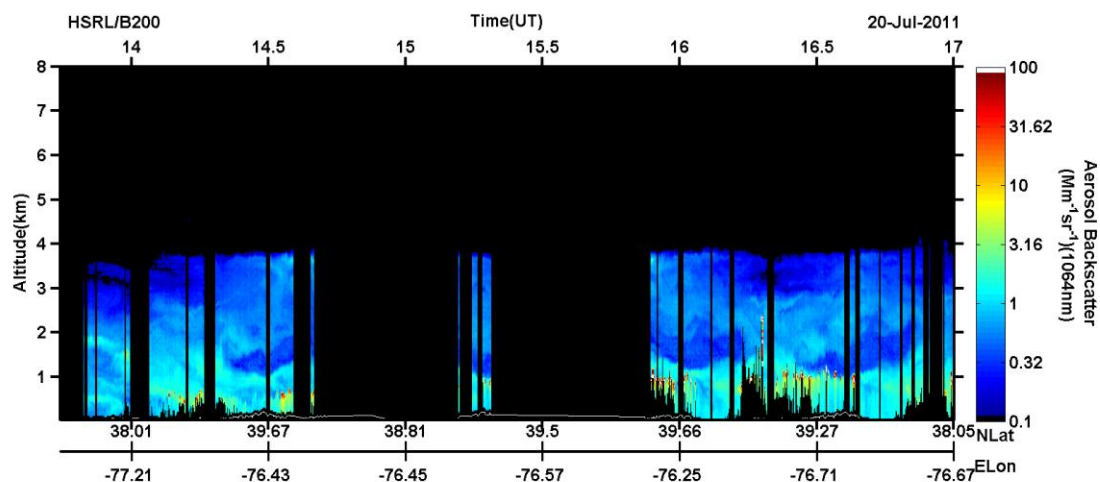


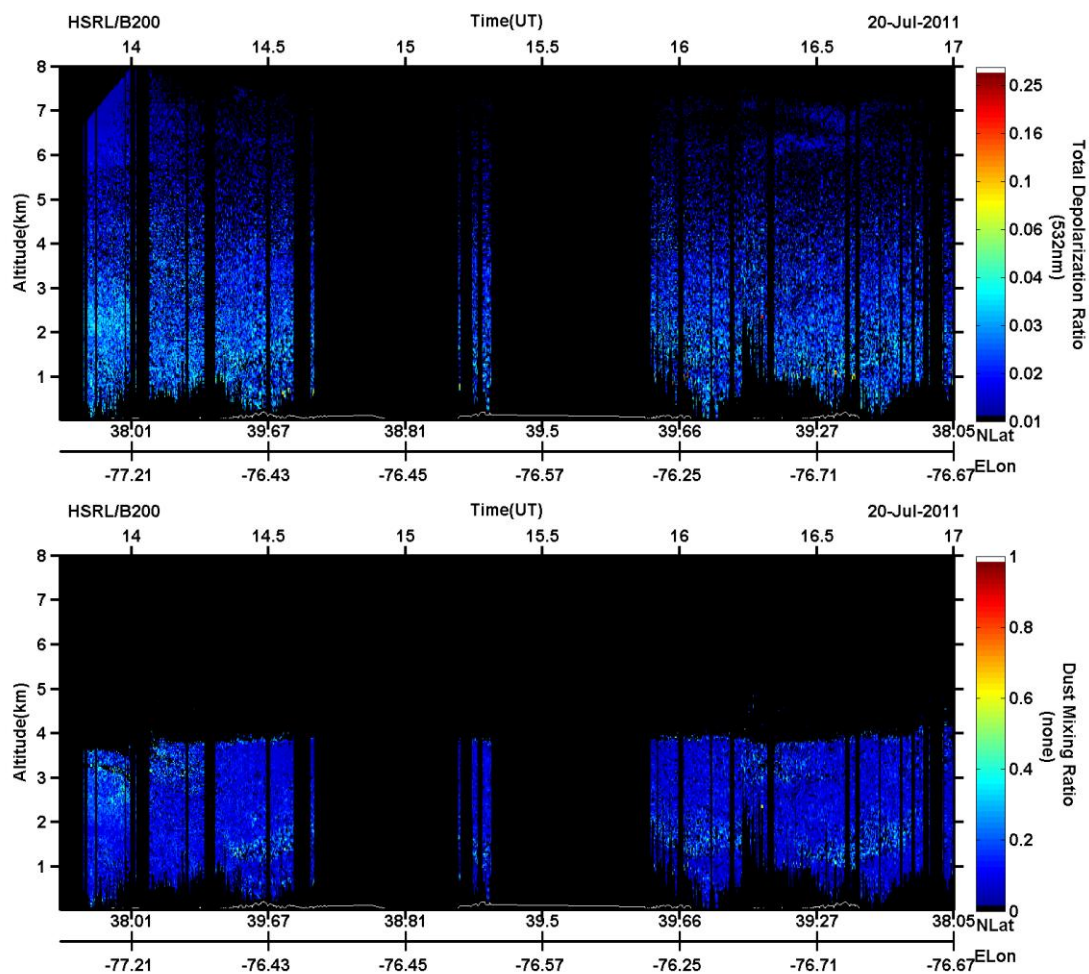












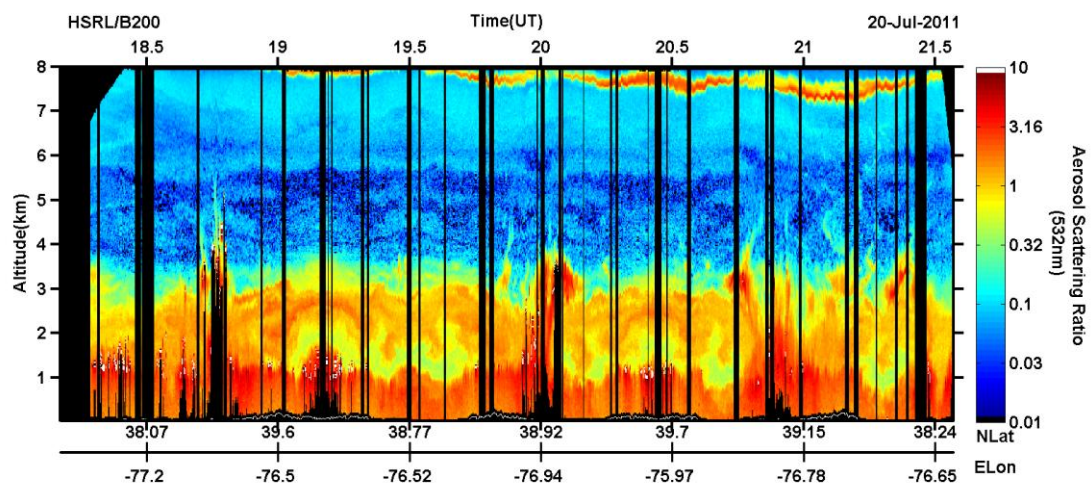
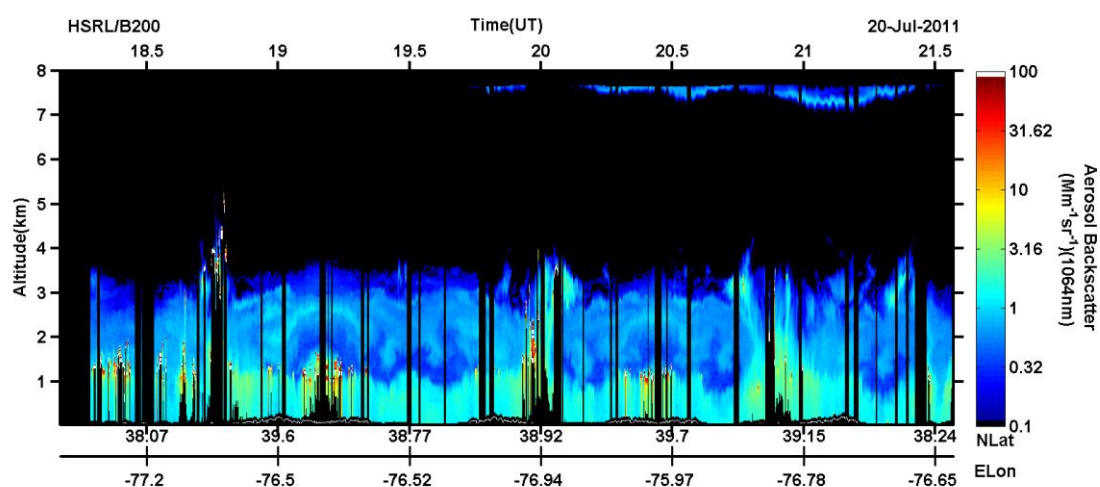
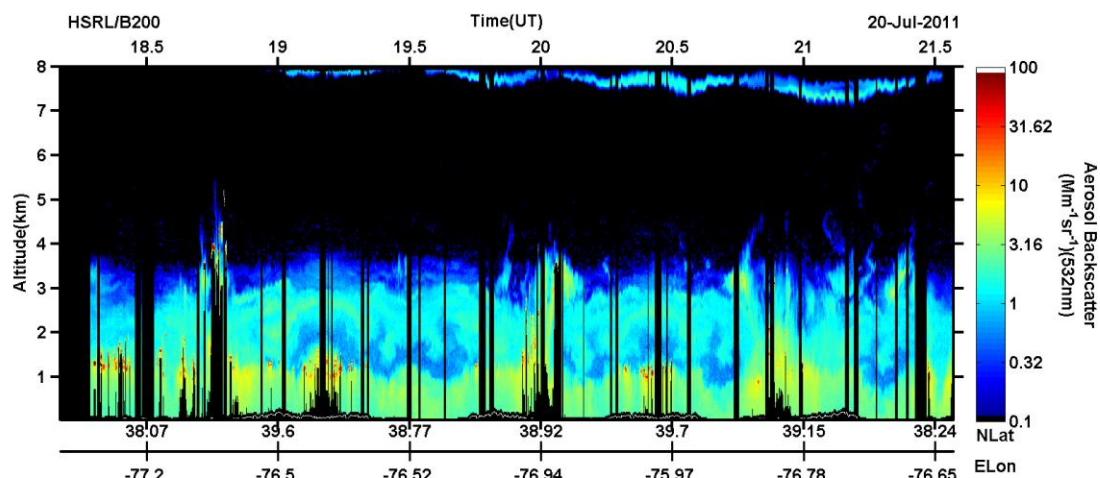
FLIGHT: Afternoon science flight (2 of 2)

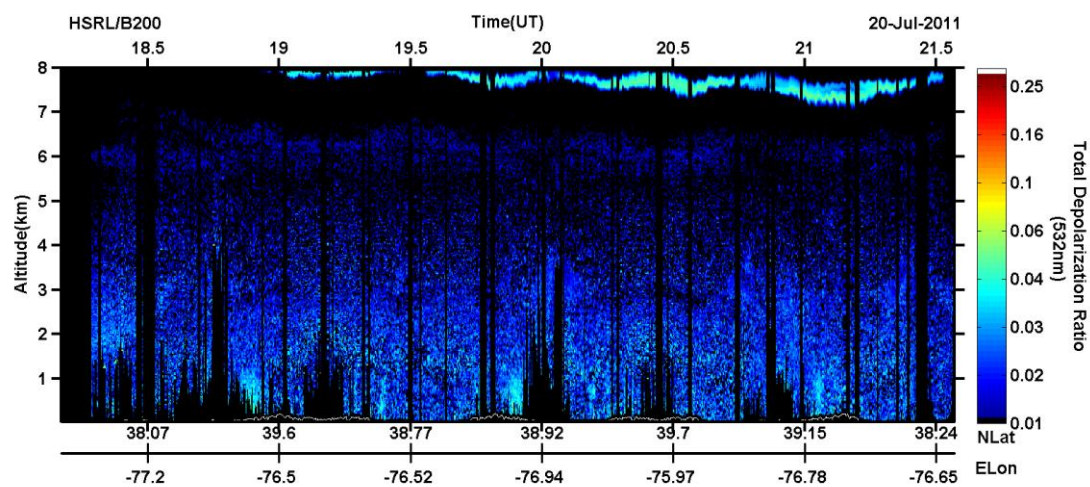
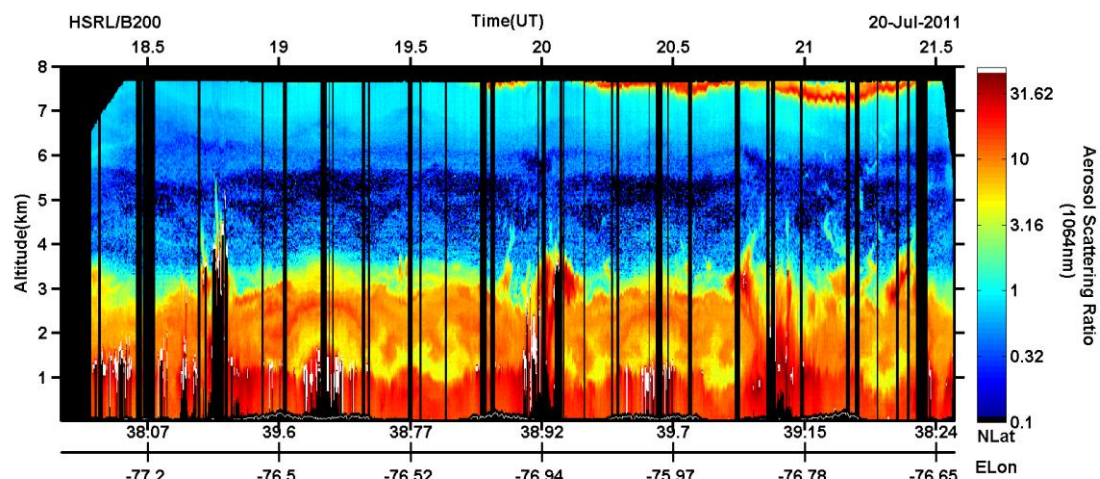
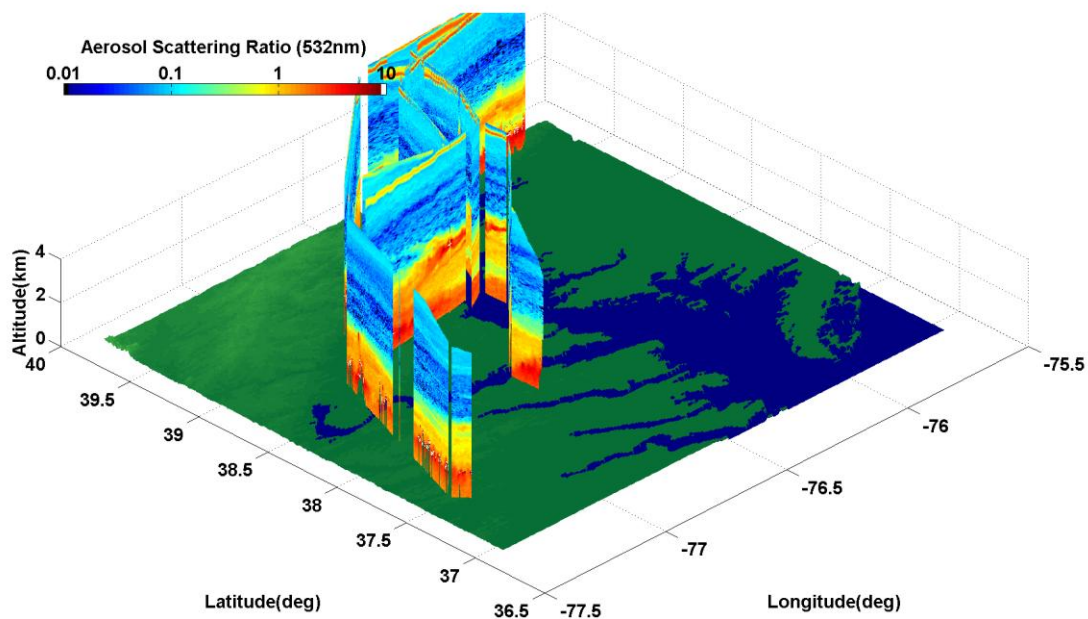
DATE: July 20, 2011

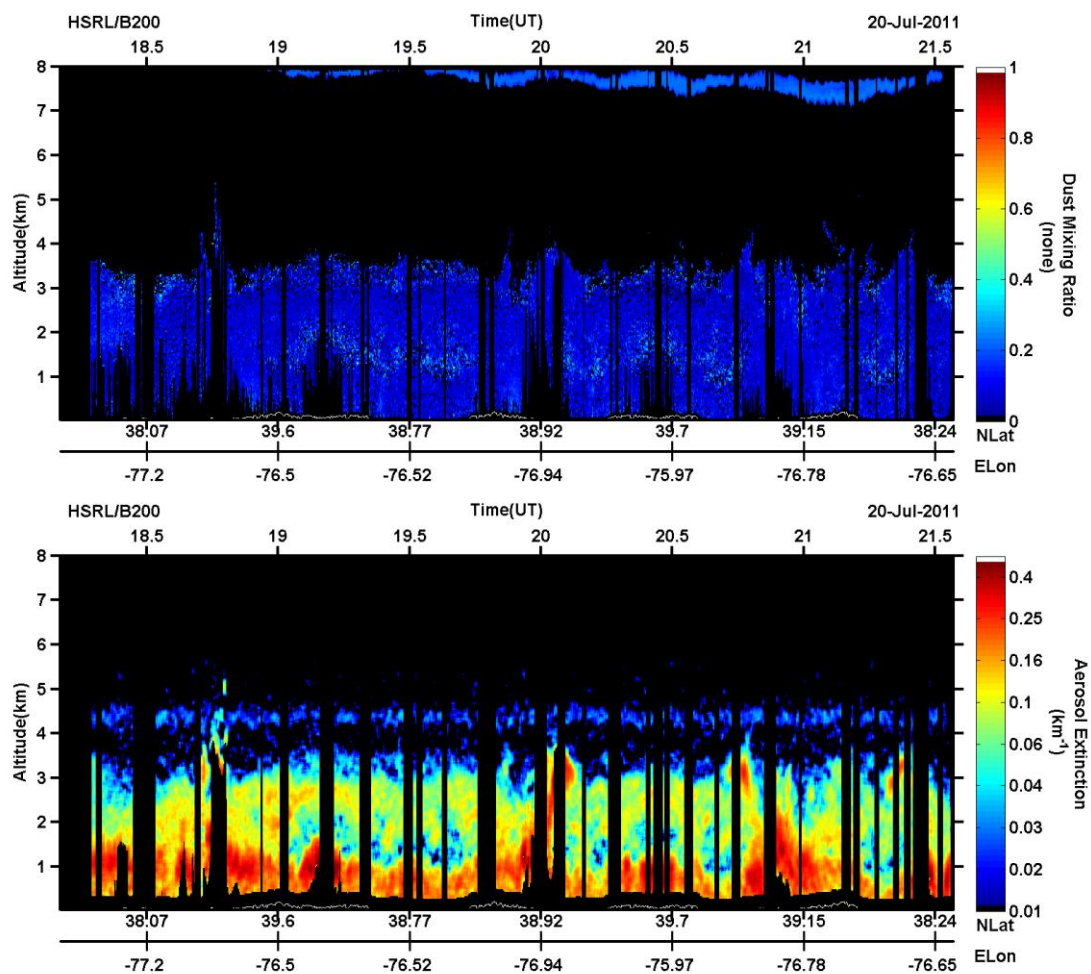
DURATION: 3.9 hours

SUMMARY: Takeoff was at 1:55 PM local time from Newport News, VA. Hazy and humid conditions persisted from the morning flight with the amount of cloud cover increasing, including light cirrus above the UC-12. A thin layer of brown aerosol was present throughout much of the flight just below the aircraft altitude. HSRL operated nominally.

SUMMARY PLOTS:







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